



Maryland HIV/AIDS Quarterly Update

Second Quarter 2021

Data reported through June 30, 2021
 Center for HIV Surveillance, Epidemiology and Evaluation
 Infectious Disease Prevention and Health Services Bureau
 Prevention and Health Promotion Administration
 Maryland Department of Health
<https://phpa.health.maryland.gov/OIDEOR/CHSE/pages/Home.aspx>
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Note. Interruptions in access to services due to the COVID-19 pandemic resulted in a dramatic decline in HIV testing, diagnoses, and routine care in 2020. Caution should be exercised when examining newly reported diagnoses and interpreting trends.

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Section I – Technical Notes

HIV/AIDS Reporting

The Maryland HIV/AIDS Reporting Act of 2007 requires that people living with HIV be reported by name to the Maryland Department of Health. As per the reporting requirements of Health-General Articles 18-201.1, 18-202.1, and 18-205 of the Annotated Code of Maryland, as specified in the Code of Maryland Regulations (COMAR) 10.18.02, physicians are required to report patients in their care with diagnoses of HIV or AIDS and infants born to mothers living with HIV, clinical and infection control practitioners in medical and correctional facilities are required to report patients in the care of the institution with diagnoses of HIV or AIDS, and laboratory directors are required to report all HIV diagnostic and HIV-related monitoring test results, including HIV negative test results.

Data Specifications

Surveillance is the ongoing systematic collection, analysis, interpretation, and dissemination of data. Data are only available for people that have been diagnosed with HIV by a health care provider, were residents of Maryland at the time of diagnosis or are current residents of Maryland as of December 31, 2020, are receiving medical care (often only at facilities in Maryland), and only includes information that has been reported to the health department.

Data presented were reported to the Maryland Department of Health through June 30, 2021. Reported new diagnoses and estimates of people living with diagnosed HIV are as of December 31, 2020.

This report presents data with a six-month reporting delay. This lag allows for time to report case and laboratory data and to complete investigations. Due to reporting delays, estimates by exposure category and mortality are preliminary.

Please note that data reported in the quarterly reports may not match data reported in the annual epidemiological profiles due to differences in reporting periods.

Please read all table titles and footnotes carefully to ensure a complete understanding of the displayed data.

New HIV Infections

The Centers for Disease Control and Prevention (CDC), using national surveillance data, estimates that the number of people living with undiagnosed HIV infection, among people living with HIV, is 13.3 percent in the United States.¹ Applying the same estimation method to Maryland surveillance data, the estimated number of people living with undiagnosed HIV infection in Maryland is 10.1 percent in 2019.

AIDS Diagnoses

CD4+ T-lymphocyte tests are measures of a person's immune system function. An adult living with diagnosed HIV is considered to have AIDS if they have less than 200 CD4+ cells per microliter of blood or if the percent of T-Lymphocyte cells that are CD4+ is less than 14 percent.

Mortality

People are assumed to be alive unless reported as deceased to the Maryland Department of Health. Caution should be exercised when interpreting mortality estimates for recent years due to delays in reporting.

Engagement in HIV Care

Treatment recommendations are that a person in HIV medical care should have their CD4 and viral load levels measured regularly, at least once per year. The presence of these lab tests is used as an indicator that someone has been "linked to care" after diagnosis or is "retained in care."

Viral Suppression

Viral load tests are measures of the amount of HIV in a person's body. The goal of HIV treatment is to have a low number of copies of virus per milliliter of blood, below what the test can measure, which is called an undetectable level. Low levels of viral load, such as less than 200 copies per milliliter of blood, is known as viral suppression. Estimates of viral suppression among people living with diagnosed HIV are inclusive of people diagnosed in the specified year; therefore, they may not have had sufficient time to engage in HIV care and/or achieve viral suppression.

¹Centers for Disease Control and Prevention. Estimated HIV incidence and prevalence in the United States, 2015–2019. HIV Surveillance Supplemental Report 2021;26(No. 1). <http://www.cdc.gov/hiv/library/reports/hiv-surveillance.html>. Published May 2021. Accessed May 2021.

Geographic Distribution

Residence at diagnosis is used exclusively to describe new HIV and AIDS diagnoses. Estimates describing the number of people living with diagnosed HIV use current residence. Current residence estimates are restricted to people for which there is a case report form or laboratory test reported since January 1, 2009. Restricting address data to recent years presents the most accurate data available and helps to account for people that may have moved out of state whose data would no longer be reported in Maryland. However, current residence data excludes people that may still be residents of Maryland but have not received any HIV care since prior to 2009. In addition, residence is dynamic and people living with diagnosed HIV may have resided at multiple addresses that cannot all be represented in single time point estimates.

In the quarterly reports, not all data has been geocoded and therefore is preliminary. Geocoding is the process of assigning geographic identifiers to map features and data records. Addresses are standard data elements required by law and submitted as part of reporting requirements; however, the information may be incomplete which then requires a geocoding process to improve the quality of data. This process is fully completed on the end-of-the-year data set.

Residents of Correctional Facilities

People living with diagnosed HIV who were reported to be residing in a state or federal prison will be described

for Maryland only. For surveillance purposes, pre- or post-incarceration residential addresses are used for people living with diagnosed HIV who were incarcerated in local jails and detention centers.

Sources of Data

Information on HIV and AIDS diagnoses, including residence, vital status, and CD4 and HIV viral load test results are from the Maryland Department of Health's Enhanced HIV/AIDS Reporting System (eHARS), as of June 30, 2021.

Tabulation of Column Totals

Numbers in figures, tables and generally in the text have been rounded. Discrepancies in tables between totals and sums of components are due to rounding.

Data Suppression

In order to protect the confidentiality of people living with diagnosed HIV, data are suppressed in the following instances:

- Data describing a demographic group or geographic area (e.g. ZIP code) with a population less than 1,000 people.
- All clinical/laboratory information if it is describing less than five people.
- If any cell is suppressed, additional cells are also suppressed as necessary to prevent back calculation of the suppressed cell(s).

Glossary of Terms

CD4 Result Distribution (<200, 200-349, 350-499, 500+): Percent of people living with diagnosed HIV with a CD4 test distributed by their CD4 count results (cells per microliter).

CD4 With Test: Number and percent of total people aged 13+ living with diagnosed HIV with a recent CD4 test result.

Corrections: Residence in a state or federal prison. Does not include local jails and detention centers.

Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

First CD4 Test Result Median Count: Median CD4 count (cells per microliter) of the first CD4 test result reported within 12 months following initial HIV diagnosis.

First CD4 Test Result Percent with Test: Percent of reported HIV diagnoses among people aged 13+ with the first CD4 test result reported within 12 months following the initial HIV diagnosis.

Jurisdiction of Current Residence: Jurisdiction of residence from the most recent report since January 1, 2009.

Jurisdiction of Residence: Jurisdiction of residence at diagnosis or current residence.

Jurisdiction of Residence at AIDS Diagnosis: Jurisdiction of residence at time of initial AIDS diagnosis.

Jurisdiction of Residence at Diagnosis: Jurisdiction of residence at the later time of initial HIV diagnosis or time of initial AIDS diagnosis.

Jurisdiction of Residence at HIV Diagnosis: Jurisdiction of residence at time of initial HIV diagnosis.

Late HIV Diagnosis: Percent of adult/adolescent reported HIV diagnoses with an initial AIDS diagnosis less than or equal to 3 months after their initial HIV diagnosis.

Linked to Care: Percent of adult/adolescent reported HIV diagnoses with a reported CD4 or viral load test performed less than or equal to 1 month or 3 months after their initial HIV diagnosis.

People Aged 13+ Living with Diagnosed HIV: Reported HIV diagnoses, age 13 years or older as of December 31, 2020 and not reported to have died as of June 30, 2021.

People Living with Diagnosed HIV: Reported HIV diagnoses not reported to have died as of June 30, 2021.

Median Count: Median CD4 count (cells per microliter), among total people aged 13+ living with diagnosed HIV, of the most recent CD4 test result measured in the specified year.

Median Unsuppressed: Median unsuppressed viral load (copies per milliliter) among people aged 13+ living with diagnosed HIV of the most recent viral load test result measured in the specified year of 200 copies per milliliter or greater.

Percent Change: The percent change in number of total people aged 13+ living with diagnosed HIV from residence at diagnosis to current residence.

Percent Late HIV Diagnosis: Percent of adult/adolescent reported AIDS diagnoses with an initial HIV diagnosis less than or equal to 3 months prior to their initial AIDS diagnosis.

Percent Suppressed: Percent of total people aged 13+ living with diagnosed HIV with a recent viral load test result measured in the specified year of less than 200 copies per milliliter.

Population: Population estimate for July 1, 2020.

Population Age 13+: Population age 13 years or older, estimate for July 1, 2020.

Rate: Number of people living with diagnosed HIV divided by the population and multiplied by 100,000.

Ratio (1 in X): Number of people for every 1 person living with diagnosed HIV in the population, or 1 person living with diagnosed HIV in every X number of people.

Recent CD4 Test Result: The most recent CD4 test result measured in the specified year.

Recent Viral Load Test Result: The most recent viral load test result measured in the specified year.

Reported AIDS Diagnoses Among People Aged 13+: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial AIDS diagnosis during the specified year.

Reported HIV Diagnoses Among People Aged 13+: Reported HIV diagnoses, age 13 years or older at HIV diagnosis, with an initial HIV diagnosis during the specified year.

Residence at Diagnosis: Jurisdiction of residence at later time of initial HIV diagnosis or initial AIDS diagnosis.

Total People Aged 13+ Living with Diagnosed HIV: Reported HIV diagnoses, age 13 years or older as of December 31, 2020 not reported to have died as of June 30, 2021.

Viral Load With Test: Number and percent of total people aged 13+ living with diagnosed HIV with a recent viral load test result.

Maryland Department of Health Non-Discrimination Statement

The Maryland Department of Health (MDH) complies with applicable Federal civil right laws and does not discriminate on the basis of race, color, national origin, age, disability in its health programs and activities.

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Section II – Reported HIV Diagnoses, Among People Aged 13+, by Jurisdiction

Table 1 – Reported HIV Diagnoses and Reported AIDS Diagnoses, Among People Aged 13+ During January 1, 2020 through December 31, 2020, by Jurisdiction of Residence at Diagnosis, Reported through June 30, 2021

Jurisdiction of Residence at Diagnosis	Population Age 13+	Reported HIV Diagnoses Among People Aged 13+			Reported AIDS Diagnoses Among People Aged 13+		
		No.	% of Total	Rate	No.	% of Total	Rate
Allegany	61,487	2	0.3%	3.3	1	0.3%	1.6
Anne Arundel	488,915	36	5.0%	7.4	21	5.4%	4.3
Baltimore City	498,775	178	24.6%	35.7	99	25.3%	19.8
Baltimore	697,539	92	12.7%	13.2	40	10.2%	5.7
Calvert	78,372	6	0.8%	7.7	2	0.5%	2.6
Caroline	27,860	1	0.1%	3.6	1	0.3%	3.6
Carroll	143,470	2	0.3%	1.4	2	0.5%	1.4
Cecil	87,352	5	0.7%	5.7	1	0.3%	1.1
Charles	136,982	20	2.8%	14.6	9	2.3%	6.6
Dorchester	27,124	1	0.1%	3.7	0	0.0%	0.0
Frederick	221,788	14	1.9%	6.3	7	1.8%	3.2
Garrett	25,235	0	0.0%	0.0	0	0.0%	0.0
Harford	216,746	11	1.5%	5.1	8	2.0%	3.7
Howard	272,971	16	2.2%	5.9	11	2.8%	4.0
Kent	17,134	3	0.4%	17.5	1	0.3%	5.8
Montgomery	879,817	84	11.6%	9.5	50	12.8%	5.7
Prince George's	761,933	219	30.2%	28.7	121	30.9%	15.9
Queen Anne's	43,732	2	0.3%	4.6	2	0.5%	4.6
Saint Mary's	95,244	4	0.6%	4.2	3	0.8%	3.1
Somerset	22,345	3	0.4%	13.4	1	0.3%	4.5
Talbot	32,289	2	0.3%	6.2	0	0.0%	0.0
Washington	128,052	8	1.1%	6.2	6	1.5%	4.7
Wicomico	87,648	14	1.9%	16.0	6	1.5%	6.8
Worcester	46,118	2	0.3%	4.3	0	0.0%	0.0
Corrections	--	0	0.0%	--	0	0.0%	--
Total	5,098,929	725	100.0%	14.3	392	100.0%	7.9

Table 2 – Reported HIV Diagnoses, Among People Aged 13+ During January 1, 2020 through December 31, 2020, Linked to Care, Late Diagnosis, First CD4 Test Result, and Mean Years from HIV Diagnosis by Jurisdiction of Residence at Diagnosis, Reported through June 30, 2021

Jurisdiction of Residence at HIV Diagnosis	Reported HIV Diagnoses Among People Aged 13+					
	No.	Linked to Care		% Late HIV Diagnoses	First CD4 Test Result	
		% 1 mo.	% 3 mo.		% with Test	Median Count
Allegany	2	***	***	***	***	***
Anne Arundel	36	75.0%	83.3%	22.2%	88.9%	477
Baltimore City	178	86.5%	92.7%	13.5%	92.7%	442
Baltimore	92	85.9%	93.5%	17.4%	93.5%	447
Calvert	6	100.0%	100.0%	***	100.0%	323
Caroline	1	***	***	***	***	***
Carroll	2	***	***	***	***	***
Cecil	5	100.0%	100.0%	***	100.0%	520
Charles	20	80.0%	90.0%	***	85.0%	373
Dorchester	1	***	***	***	***	***
Frederick	14	92.9%	100.0%	***	100.0%	271
Garrett	0	--	--	--	--	--
Harford	11	90.9%	90.9%	54.5%	90.9%	124
Howard	16	93.8%	93.8%	***	93.8%	452
Kent	3	***	***	***	***	***
Montgomery	84	89.3%	94.0%	27.4%	97.6%	376
Prince George's	219	90.0%	92.7%	30.6%	93.2%	300
Queen Anne's	2	***	***	***	***	***
Saint Mary's	4	***	***	***	***	***
Somerset	3	***	***	***	***	***
Talbot	2	***	***	***	***	***
Washington	8	87.5%	87.5%	62.5%	100.0%	189
Wicomico	14	92.9%	100.0%	***	92.9%	333
Worcester	2	***	***	***	***	***
Corrections	0	--	--	--	--	--
Total	725	87.3%	92.6%	23.7%	93.2%	390

*** Data withheld due to low population counts and/or small numbers

Table 3 – People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2020, by Jurisdiction of Residence at Diagnosis and Current Residence, Reported through June 30, 2021

Jurisdiction of Residence	Population Age 13+	Total People Aged 13+ Living with Diagnosed HIV								
		Residence at Diagnosis				Current Residence				% Change
		No.	% of Total	Rate	Ratio (1 in X)	No.	% of Total	Rate	Ratio (1 in X)	
Allegany	61,487	95	0.3%	154.5	647	101	0.3%	164.3	609	6.3%
Anne Arundel	488,915	1,326	4.0%	271.2	369	1,363	4.3%	278.8	359	2.8%
Baltimore City	498,775	12,040	36.4%	2,413.9	41	10,597	33.5%	2,124.6	47	-12.0%
Baltimore	697,539	3,285	9.9%	470.9	212	3,609	11.4%	517.4	193	9.9%
Calvert	78,372	116	0.4%	148.0	676	138	0.4%	176.1	568	19.0%
Caroline	27,860	68	0.2%	244.1	410	66	0.2%	236.9	422	-2.9%
Carroll	143,470	154	0.5%	107.3	932	148	0.5%	103.2	969	-3.9%
Cecil	87,352	127	0.4%	145.4	688	154	0.5%	176.3	567	21.3%
Charles	136,982	516	1.6%	376.7	265	650	2.1%	474.5	211	26.0%
Dorchester	27,124	127	0.4%	468.2	214	148	0.5%	545.7	183	16.5%
Frederick	221,788	376	1.1%	169.5	590	487	1.5%	219.6	455	29.5%
Garrett	25,235	10	0.0%	39.6	2,524	14	0.0%	55.5	1,803	40.0%
Harford	216,746	469	1.4%	216.4	462	520	1.6%	239.9	417	10.9%
Howard	272,971	623	1.9%	228.2	438	688	2.2%	252.0	397	10.4%
Kent	17,134	41	0.1%	239.3	418	50	0.2%	291.8	343	22.0%
Montgomery	879,817	4,169	12.6%	473.8	211	3,628	11.5%	412.4	243	-13.0%
Prince George's	761,933	7,936	24.0%	1,041.6	96	7,933	25.1%	1,041.2	96	0.0%
Queen Anne's	43,732	57	0.2%	130.3	767	59	0.2%	134.9	741	3.5%
Saint Mary's	95,244	146	0.4%	153.3	652	156	0.5%	163.8	611	6.8%
Somerset	22,345	76	0.2%	340.1	294	79	0.2%	353.5	283	3.9%
Talbot	32,289	67	0.2%	207.5	482	78	0.2%	241.6	414	16.4%
Washington	128,052	320	1.0%	249.9	400	361	1.1%	281.9	355	12.8%
Wicomico	87,648	262	0.8%	298.9	335	268	0.8%	305.8	327	2.3%
Worcester	46,118	76	0.2%	164.8	607	67	0.2%	145.3	688	-11.8%
Corrections	--	631	1.9%	--	--	271	0.9%	--	--	--
Total	5,098,929	33,113	100.0%	649.4	154	31,633	100.0%	620.4	161	-4.5%

Table 4 – CD4 Test Results During January 1, 2020 through December 31, 2020 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2020, by Jurisdiction of Current Residence, Reported through June 30, 2021

Jurisdiction of Current Residence	Total People Aged 13+ Living with Diagnosed HIV								
	No.	Recent CD4 Test Result				<200	200-349	350-499	500+
		No. with Test	% with Test	Median Count					
Allegany	101	91	90.1%	656	4.4%	4.4%	19.8%	71.4%	
Anne Arundel	1,363	943	69.2%	650	6.3%	10.5%	16.2%	67.0%	
Baltimore City	10,597	7,288	68.8%	607	9.0%	12.0%	16.4%	62.6%	
Baltimore	3,609	2,447	67.8%	653	6.3%	10.9%	14.3%	68.5%	
Calvert	138	112	81.2%	630	7.1%	10.7%	12.5%	69.6%	
Caroline	66	49	74.2%	704	6.1%	4.1%	12.2%	77.6%	
Carroll	148	103	69.6%	715	6.8%	5.8%	14.6%	72.8%	
Cecil	154	97	63.0%	629	5.2%	8.2%	21.6%	64.9%	
Charles	650	492	75.7%	683	7.5%	8.7%	13.6%	70.1%	
Dorchester	148	105	70.9%	634	8.6%	9.5%	19.0%	62.9%	
Frederick	487	359	73.7%	641	5.0%	9.7%	13.4%	71.9%	
Garrett	14	12	85.7%	715	16.7%	0.0%	25.0%	58.3%	
Harford	520	339	65.2%	634	6.8%	13.9%	14.5%	64.9%	
Howard	688	511	74.3%	672	5.5%	10.2%	14.3%	70.1%	
Kent	50	40	80.0%	707	5.0%	7.5%	10.0%	77.5%	
Montgomery	3,628	2,503	69.0%	604	5.7%	12.2%	17.6%	64.5%	
Prince George's	7,933	5,910	74.5%	632	6.8%	11.1%	15.3%	66.8%	
Queen Anne's	59	45	76.3%	610	13.3%	17.8%	8.9%	60.0%	
Saint Mary's	156	117	75.0%	614	8.5%	12.8%	17.1%	61.5%	
Somerset	79	61	77.2%	585	3.3%	9.8%	21.3%	65.6%	
Talbot	78	60	76.9%	513	10.0%	20.0%	15.0%	55.0%	
Washington	361	267	74.0%	698	6.4%	9.0%	14.6%	70.0%	
Wicomico	268	195	72.8%	585	10.3%	16.9%	11.8%	61.0%	
Worcester	67	51	76.1%	676	5.9%	5.9%	25.5%	62.7%	
Corrections	271	216	79.7%	666	6.0%	12.5%	12.5%	69.0%	
Total	31,633	22,422	70.9%	628	7.3%	11.4%	15.8%	65.6%	

Table 5 – Viral Load Test Results During January 1, 2020 through December 31, 2020 for People Aged 13+ Living with Diagnosed HIV, Alive on December 31, 2020, by Jurisdiction of Current Residence, Reported through June 30, 2021

Jurisdiction of Current Residence	Total People Aged 13+ Living with Diagnosed HIV				
	No.	Recent Viral Load Test Result			Median Unsuppressed
		No. with Test	% with Test	% Suppressed	
Allegany	101	91	90.1%	90.1%	53,800
Anne Arundel	1,363	992	72.8%	91.3%	12,850
Baltimore City	10,597	7,935	74.9%	88.0%	12,260
Baltimore	3,609	2,651	73.5%	91.1%	7,416
Calvert	138	114	82.6%	95.6%	2,990
Caroline	66	45	68.2%	86.7%	78,320
Carroll	148	110	74.3%	93.6%	42,600
Cecil	154	103	66.9%	85.4%	21,100
Charles	650	488	75.1%	90.2%	2,703
Dorchester	148	110	74.3%	94.5%	16,915
Frederick	487	363	74.5%	91.7%	6,643
Garrett	14	11	78.6%	90.9%	258
Harford	520	367	70.6%	92.1%	11,300
Howard	688	520	75.6%	91.5%	5,555
Kent	50	42	84.0%	92.9%	223,620
Montgomery	3,628	2,488	68.6%	92.8%	11,176
Prince George's	7,933	5,923	74.7%	90.6%	8,340
Queen Anne's	59	47	79.7%	93.6%	127,037
Saint Mary's	156	121	77.6%	86.0%	24,500
Somerset	79	62	78.5%	82.3%	10,480
Talbot	78	60	76.9%	93.3%	33,600
Washington	361	259	71.7%	89.2%	28,250
Wicomico	268	210	78.4%	87.1%	15,968
Worcester	67	53	79.1%	92.5%	450
Corrections	271	219	80.8%	88.6%	4,380
Total	31,633	23,393	74.0%	90.0%	10,500